



# Iowa District Program Review: Fiscal Years 2004 and 2005

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USGS and the  
Lewis and Clark  
Expedition



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## I. PRIORITY SCIENCE ISSUES

### MAJOR CURRENT OR EMERGING WATER ISSUES

#### *Floodplain Mapping*

FEMA has launched an ambitious map modernization program to accelerate the floodplain mapping process. FEMA is working with local communities and other agencies, including the USGS, to tap into their mapping expertise as it applies to flood maps so as to develop new and innovative techniques for floodplain mapping. The Iowa District was involved in the pilot project with FEMA in FY2003 to complete floodplain mapping GIS and GPS technology. The project was not continued in FY2004 due to a change in FEMA priorities.

#### *Ambient Water Monitoring Program*

The Water Monitoring Section of the Iowa Geological Survey (part of the Iowa Department of Natural Resources) is responsible for the design, implementation, and management of Iowa's Ambient Water Monitoring Program. The purpose of the program is to develop and deliver consistent, unbiased information about the condition of Iowa's surface and ground-water resources so that decisions regarding the development, management, and protection of these resources may be improved. The USGS has been the primary partner in the state-wide monitoring program which was expanded in FY2004 to include a new multi-year cooperative project for a large-river monitoring program.

#### *Iowa Water Summit*

The Iowa Water Summit was a forum designed to establish a roadmap to eliminate impaired waters in Iowa. The Summit brought together diverse groups to identify consensus solutions to Iowa's water-quality problems and outline specific steps that Iowa can take to achieve this goal. Participants studied the current impaired waters list with focused attention on other waterways that are impaired by nutrients but do not currently qualify for the impaired waters list. Other goals of the Summit were to review existing programs and policies, identify innovative solutions, establish priorities, assign responsibilities, set timetables for action, and identify financial resource needs. USGS was involved in the summit meetings and workshops, providing expertise, presentations, and input in the discussions regarding solutions to the water-quality challenges in Iowa.

### SCIENCE PLAN

#### How has the Science Plan been used and your perceptions of its value?

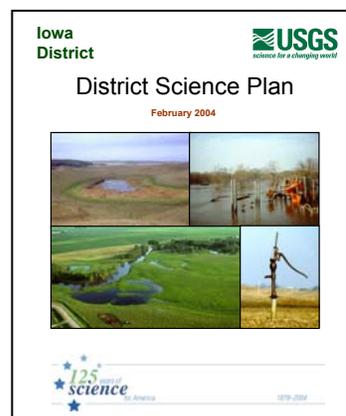
The Science Plan continues to be utilized both as a platform for discussion and guidance for direction in regards to water-resource issues within Iowa now and in the future; often being used in initial discussions with cooperators on specific issues of concern. Both the Science Plan and the Implementation Plan for the Science Plan are on District's intranet website.

#### Changes in the Science Plan since its submittal to Region

The plan was revised in February 2004 to include any emerging science issues and to add an implementation plan for actions outlined in the plan; the revised plan was submitted to Region for review.

#### Summary of progress in implementing the Science Plan

An implementation plan for the District Science Plan was developed in February 2004; both short-term and long-term objectives were outlined for accomplishing various aspects of the District Science Plan.



### FUTURE PROGRAMMATIC OPPORTUNITIES FOR INVOLVING OTHER USGS RESOURCES

The District has and will continue to seek out program partnerships within the Bureau, including the other three technical disciplines, the research component within the Water Resources Discipline, and the analytical capabilities of the NWQL. Recent successful efforts were the partnership programs with the EROS Data Center in a Director's Venture Capital project, the Science Center at La Crosse, Wisconsin on nutrient concentration trends in the Upper Mississippi River, and the Science Center in Columbia, Missouri on aquatic ecosystems in a CRISP project. The emerging issues related to human and environmental health will require the ability to address the ecological implications as well as the chemical characteristics of water. The NRP and the NWQL will continue to be a strong and vital component of the District program in Iowa as these emerging issues will require the need for state-of-the-science data acquisition, analysis, and analytical procedures; two NRP lecturers have been requested for FY2004.

## II. TECHNICAL ISSUES

### STATUS OF DATA PROGRAM



Currently, the Iowa District Data Section has 17 full-time employees, located in the Iowa City, Council Bluffs, and Fort Dodge field offices. The Iowa Data Section also oversees the Iowa sediment lab also co-located in Iowa City which has an additional three full-time people. The Iowa Data Program is strong, enthusiastic, progressive, and growing. These qualities have been enhanced because of investments in new directions, such as the bathymetric surveys, cutting edge technologies such as ADCPs and PDAs, and increased

informal in-house cross training within the Section. These investments have and will continue to pay off in dividends of increased morale and increased program. The Data Section continues to keep records real-time while looking for new ways to collect hydrologic data in a more cost effective, timely, and safe manner, with the near term goal of becoming a “click-free” district with the definition of “no moving parts”.

**Table 1—Data Collection Program**

Type of Station	Number of Stations	Cost per Station
Continuous stream flow	133	\$12,030
Continuous stage	6	\$6,015
Crest-stage	90	\$1,460
Precipitation	7	\$2,890
NASQAN	3	\$35,243 and \$53,262
Sediment	11	\$16,100 to \$22,660
Reservoir/lake	9	\$3,970
Miscellaneous ground-water	164	\$425
Ground-water quality	150	\$2,200

### Successes/Opportunities/Needs

The Section continues to have ongoing discussions with various customers looking for areas that we can build program and develop new capabilities. Building on the bathymetric expertise gained from the Lake Delhi data collection project, the Data Section began talks with the TMDL section of the Iowa Department of Natural Resources (IDNR). These talks yielded the initial program of TMDL bathymetric data collection for three lakes in FY2002. The success of the initial program yielded a two-year program to survey nine lakes (5 in FY03 and 4 in FY04). Recently, in January '04, we had more discussions with the TMDL, Fisheries, and Geological Survey of the IDNR. These discussions appear to be leading in the direction of the USGS conducting bathymetric surveys on all 135 lakes left to do in Iowa. I was charged with estimating the cost of conducting these surveys on a per acre basis (completed). Armed with this information the supervisors from each of the above named sections are going to make a presentation to the IDNR directors making the case that this is what is needed for each lake in the state if they are truly serious about safeguarding the natural resources of the state. Hopefully this program will take off, however, we will only be able to do about 10 lakes a year which would mean that we would need to staff up and would need about \$125,000 of additional coop money per year for the next 12 to 15 years. A few of the lakes are so large that we could complete only one per year and may cost about \$450,000 or more. The products from the lakes program include volumetric tables and sediment thickness of the lakebed. Also from this bathymetric expertise, we have surveyed 25 miles of the Minnesota River in MN for the MN district and are slated to go to Breckenridge, CO to survey the water supply lake there for the CO district.

The Iowa Data Section took on the challenge by the CRACD team almost two years ago to keep all surface-water records current and up to date. The Data Section met this challenge and is continuing to keep records current, while still conducting our own program activities and supporting the Studies Section. All of Western Field Unit surface-water records were worked and checked by Nov. 3 and the Eastern Field Unit had all of their records worked and checked by Dec. 15. The Eastern Field Unit was behind because they had to help MN out on a river bathymetry project and had to finish up some coring and bathymetry work of our own. This year we did a 50% of all records final review between offices and found little that needed changing. All data report recipients were notified last year that we were not going to publish the annual data report in paper form anymore and were asked if they wanted it on CD instead. We should have the first volume put on the Web by early March and the second volume within two weeks of that.

### District-Specific Data Issues

All stations are equipped with DCPs and are operated real-time. The Section has been working on removing all telephones only DCPs and replacing them with satellite telemetry on NSIP sites. This change will allow us to cancel the telephone line or call the gage on a monthly basis to ensure the telephone is working thereby decreasing the telephone costs and serve more real-time data to the web. This upgrade in equipment has taken place quicker than expected; we now have about 10 of the 18 gages already changed out with 4 more slated this spring. Other NSIP money is spent on O&M and flood hardening of gages.

The Section tried to hire a GIS person to handle the work from our bathymetric surveys and was unable to do that, instead, we retrained one of our people that was interested in doing GIS work. That did leave us understaffed but we were able to fill that position with a lateral transfer from Pennsylvania.

Volume One of the Annual Data Report will be posted on the web by late February with Volume Two within two weeks after that. CDs will be furnished to those recipients that had requested one.

The Section continues to upgrade DCPs that are phone modem only to DCPs with GOES and phone modem.

### Investments in New Capabilities

The Iowa District has designed and built a detachable boom for our 22-foot boat from which sediment-core samples can be collected using a gravity core barrel. This boom was used to collect 32 sediment cores from three lakes in the District in FY02. The Iowa Data Section purchased a five beam acoustic depth sounder for use in its bathymetric surveys. This unit has the ability to penetrate sediment to the original bed material. Four HYPACK MAX software packages were purchased to aid in the bathymetric surveys. In addition, the section bought a coring platform complete with a vibrating core barrel which works exceptionally well in both shallow and deep water.

PDA's have been purchased for all field personnel and a training class was held in January 2003 on the use of the PDA in field data collection, field form completion, and data transmission. The Section has agreed to field test the beta version of the Analytical Services Report (ASR) software being developed for the PDA.

The District currently owns two sets of Acoustic Doppler Current Profiler, GPS, and digital echo sounder as well as two additional ADCP units with GPS units, one tethered boat with ADCP, and one remote controlled boat with ADCP for six working Doppler units. Also utilized are five (one as backup) side-looking Doppler units for velocity measurements below reservoirs. The Section also has four Bogie Dopps, three AquaCalcs, and one ADV. These types of equipment will enable the Section to make better discharge measurements and increase our safety level by getting off bridges faster or entirely. Future modifications also include designing a system to be permanently mounted to a bridge for ADCP use.

### Progress Toward Processing Records Real-Time

All records have been worked real-time and are kept current since implementation in February 2001.

## STATUS OF STUDIES PROGRAM



The Iowa District Studies Program is comprised of data and interpretive projects that are of short or limited term and that typically end with the delivery of a final product (report or data). The Studies Program includes the National Water Quality Assessment (NAWQA) study unit in Iowa. There are currently (2/1/04) 10 hydrologists and 1 hydrologic technician assigned to the Section.

Funding for the Studies Program is divided among the three main funding categories: Cooperative Water Program, Federal Program, and Other Federal Agency Program. Historically, the Cooperative Water Program has been the largest source of funds for the Studies Program. This changed in FY1994 when the District (and Section) began work on a Federally-funded NAWQA Study Unit. NAWQA funding during the low intensity phase of activities now results in about 14% of the total Studies Program and the Cooperative Water Program is the largest funding source for the Studies Program.

In FY2004, the distribution between funding sources in the Studies Program is approximately 53% Cooperative Water, 29% Federal, and 18% Other Federal Agency. The distribution in FY2005 is currently shown to be about 46% Cooperative Water, 45% Federal, and 9% Other Federal Agency. Estimated total funding from a combination of Cooperative Water, Federal, and Other Federal Agency sources is predicted to increase about \$718,000 from FY2004 to FY2005. A discussion of each major funding source is listed below.

### *Cooperative Water Program*

Total funding for Cooperative Projects from FY2004 to FY2005 is estimated to increase about \$216,500. This large increase is anticipated due to a change in Federal Matching Fund policy within the District to a 45/50 matching percentage. The anticipated matching ratio for FY2005 is 45:55 which has resulted in additional matching fund availability for new program development, although the JFAs under this new matching policy have not yet been signed. Approximately 59% of the Cooperative Water Program funds in FY2004 are with state government customers, which is a dramatic increase from prior years when the majority of funding was from municipal partners. State-government projects are primarily data-collection projects to support state agency monitoring needs. Cooperative Water Program funding with local government agencies is primarily for ground-water or water-quality projects. The ground-water-quality monitoring network project with the Iowa Department of Natural Resources will become the largest Cooperative Water Project in FY2005 due to program inflationary costs, replacing the ground-water/water-quality project with the City of Cedar Rapids, which has had level funding for a number of years.

### *Federal Program*

Total funding for federally-funded projects is difficult to estimate for FY2005 because of uncertainties in the scope of work of the second funding cycle for NAWQA. The Eastern Iowa Basins NAWQA Unit (8591-9B100) has submitted proposals for the NEET and ACT topical studies. At the time of this writing, no decision on the selection of study units for these efforts has been announced. Funding tables show an increase of about \$584,000 in anticipation of being accepted into one of the topical studies. If the Eastern Iowa Basins Study Unit is not selected for a topical study, funding will remain relatively level in the Federal Program in the Studies Section and negate most of the forecast increase in total program growth.

### *Other Federal Agency Program*

Funds in this category are expected to decrease by about \$100,000 from FY2004 to FY2005. This decline is attributable to near completion of work for the U.S. Army Reserve at sites in Iowa and Kansas. Several Army Reserve sites have been proposed for limited additional work, but the likelihood of them being funded is uncertain. The District continues to provide technical support and review activities for U.S. EPA Region VII Resource Conservation and Recovery Act (RCRA) programs in Iowa. This program (8591-9NS00) is operated on a reimbursable basis through supplemental appropriations to the MOU. Expenditures are estimated to be about \$150,000 per year and occupy at least 1 full FTE. The District received Other Federal Agency funding beginning in FY2003 as part of an increased effort nationally by the Federal Emergency Management Agency (FEMA) to include USGS in flood plain mapping programs. This program was discontinued in FY2004 by FEMA (now Homeland Security Administration) due to re-prioritizing of geographic areas for flood plain mapping. A significant number of counties in Iowa need to be mapped using current FEMA mapping guidelines and remain a possible long-term program opportunity.

### Anticipated Problems in Keeping Studies on Schedule

In recent years, due to staffing issues discussed in prior years' Program Review, the Hydrologic Studies Section has utilized the services of other USGS cost centers to provide technical assistance and services. Our understanding of the requirements of the BASIS+ system, have resulted in significant impediments to funding this type of arrangement. According to our understanding, transfers of funds greater than \$10,000 need to be done by setting up BASIS+ accounts in other cost centers. These accounts can only be funded by the reimbursable portion of the project funding. If funding amounts greater than those portions are needed to perform the necessary work, then a re-allocation of the District's federal Direct Funding would need to be done. This would be an un-necessarily complicated task with possible negative repercussions, in our opinion. The same type of problem exists within our own cost center in establishing a reduced-overhead lab account, if the laboratory expenses are greater than the reimbursable funding.

### Technical Concerns

The Hydrologic Studies Section is faced with an uncertain future with regards to technical capabilities. As shown above in the discussion on Federal Program, if the Section does not receive one of the NAWQA topical team projects, and cooperators are unwilling to provide funding for Cooperative Water Program projects at reduced matching ratios or continue to have serious State and local budgetary problems, staffing will probably need to be reduced to balance with the available work load. This will result in loss of technical capabilities which may make additional program development all the more difficult.

### Selected Study Successes

The District has study successes in each of the major funding categories. Examples of these successes follow:

- *Cooperative Water Program:* A study to determine the Missouri River bathymetry and water quality at Sioux City, Iowa (8591-AKQ00) resulted in the following comment by the cooperator after receipt of a draft copy of the final report. "I was very impressed with the work product that you presented for review. The joint venture provided a clean and concise picture of river influence. I received more information than I had anticipated. It was a union that worked very well. I am glad we finally worked together." (written communication, Rick Mach, Sioux City Water Depart., 2-3-04)
- *Federal Program:* Work by Dana Kolpin on emerging contaminants (8591-9OK00) funded by the Toxic Substances Hydrology Program continues to receive national and international visibility. Dana has succeeded in presenting the results of his efforts via oral presentations and written report products.
- *Other Federal Agency Program:* The District now has experience in using the latest FEMA digital flood plain mapping techniques as a result of a project completed in FY2003 (8591-AKT00). The project managed by Dave Eash was completed on time and on budget and demonstrated to FEMA the abilities of the USGS to successfully perform this type of work.

### **UNRESOLVED TECHNICAL ISSUES**



The District has not received review comments from the April 2003 surface water discipline review.

### III. ADMINISTRATIVE ISSUES

#### AGREEMENTS NOT FULLY EXECUTED

Of the 29 JFAs (Joint Funding Agreements) processed in Fiscal Year 2004 all have been completed and/or signed as of 2/4/03. One of the JFAs requires a modification due to reduction of federal matching funds. This modification was processed on 2/4/04 and is expected to be signed by 3/15/04. All Fiscal Year 2005 JFAs for ongoing projects will be processed within the last quarter of FY 2004 in order to be fully signed and executed before 10/1/04.

#### Joint Funding Agreements in FY2004 not completed and/or signed as of February 4, 2004

Agreement Number	Project Number	Customer Name	Amount	Status	Total of Unsigned Amounts
04C4IA00000001	8591-00100	Iowa Geological Survey – Iowa Department of Natural Resources	(\$13,774)	Modification for reducing Federal-State Matching (Direct) Funds, sent 2/04	(\$13,774)

#### STATUS OF PRIOR YEAR CLOSEOUTS (FISCAL YEARS 1999 - 2003)

The funding for Fiscal Years 1999 through 2003 was closed out within at least 0.4% of the gross funding for the fiscal year (see table below). The closeout in Fiscal Year 2003 was completed with a new Administrative Officer in the District. There was beneficial assistance from Central Region Branch of Fiscal Services and from the Administrative Officer from Rolla, Missouri who served as mentor to the District's new Administrative Officer.

Fiscal Year	Gross Funding	Remaining Balance	Percent of Gross Funding expended in Fiscal Year
1999	\$4,340,849	\$16970.02	99.61%
2000	\$4,406,441	\$17,492.14	99.60%
2001	\$4,024,143	\$9,543.83	99.76%
2002	\$4,132,229	\$2,462.16	99.94%
2003	\$4,529,833	\$10,290.00	99.77%

#### BILLING DELINQUENCIES AND EARNED/UNBILLED BALANCES

Budget Year	Agreement Number	Project Number	Customer Name	Amount	Status
2003	03C4IA00000 0017	8519NV	IDNR	\$37,450.00	Incorrect Customer No. being corrected with help from BFS, should be completed by 3/15/04

## WORKING CAPITAL FUND (WCF)

A financial plan for the WCFs (Working Capital Funds) for the Iowa District was completed in early FY2004 to effectively utilize past investments for future equipment purchases to include, vehicle purchases, reducing the District's Common Services Budget, and making strategic purchases of technical equipment. Four vehicles were purchased and outfitted with truck boxes, light bars and ladder racks, out of the Motor Vehicle WCF account. The vehicles will be paid back to the District Common Services account from project accounts over a five-year period, which will offset other overhead costs and keep the assessment rate lower. Funds were transferred from the Motor Vehicle WCF account to the Drilling and Streamgaging WCF accounts for equipment purchases that are investments in new technology for program development. A new WCF account was established in FY2003 for furniture purchases. Contributions to this new WCF were taken from several other WCF accounts such as the Sediment Lab and Water Quality. Moving the investments from these two WCFs brought their balances to zero and closed them both. Iowa District currently has 4 WCFs all for equipment.

### Status of Working Capital Funds in the Iowa District as of February 1, 2004

Agreement Number	IA9605100	IA9605200	IA9805300	IA9805800	03C48591E71
Purpose	Drilling Equipment	Motor Vehicles	Streamgaging Equipment	Computer Equipment	Furniture
Customer No.	25501	25501	25501	25501	25501
Component	4556E	4556E	4556E	4556E	4556E
Gaining Account	8591-0AE38	8591-0AE23	8591-0AE66	8591-0AE70	8591-0AE71
Start Date	1996	1996	1998	1998	2003
End Date	2007	2007	2008	2008	2004
Contribution Year and Amount	1996 \$ 5,000 1997 \$ 5,000 1998 \$ 5,000 1999 \$ 0 2000 \$ 5,000 2001 \$ 0 2002 \$ 0 2003 \$100,000 2004 \$ 0 2005 \$ 0 2006 \$ 5,000 2007 \$ 5,000	1996 \$300,000 1997 \$100,000 1998 \$ 50,000 1999 \$ 50,000 2000 \$ 56,500 2000 (\$ 30,700) 2001 \$ 90,000 2002 \$ 0 2003 (\$300,000) 2004 \$ 0 2005 \$ 10,000 2006 \$ 10,000 2007 \$ 20,000	1998 \$ 15,000 1999 \$ 0 2000 \$ 15,000 2001 \$ 45,000 2002 \$ 15,000 2003 \$150,000 2004 \$ 0 2005 \$ 0 2006 \$ 15,000 2007 \$ 15,000 2008 \$ 15,000	1998 \$ 30,000 1999 \$ 30,000 2000 \$ 30,000 2001 \$ 0 2002 \$ 0 2003 \$ 0 2004 \$ 0 2005 \$ 15,000 2006 \$ 20,000 2007 \$ 20,000 2008 \$ 20,000	2003 \$64,786 2004 \$2,549
Status	ACTIVE	ACTIVE	ACTIVE	ACTIVE	CLOSED
Account Transfers		2003 (\$330,700)			
Account Credits		\$3,250.00			
Total Contribution	\$120,000	\$319,050	\$240,000	\$90,000	\$67,335
Expenditures	(\$6,629.58)	(\$201,034.89)	(\$146,899.65)	(\$18,156.89)	(\$67,335)
Balance Available	\$113,370.42	\$118,015.11	\$93,100.35	\$71,843.11	\$0.00

## **PROCUREMENT ISSUES**

The Iowa District submitted a procurement ratification to Denver procurement for a forgotten accrual from FY2003.

### Bankcards

The Contracting Officer reviews the monthly bankcard statements. The bankcard holder is signing the back page of every monthly statement. The approving official is reviewing and signing the back page of every monthly statement. We have no STEP employees with travel-only bankcards.

### Contracting Officer's (CO) Warrant

Contracting Officer received Warrant Maintenance training in FY2003.

### Contracts

#### Status of Last Acquisition Management Review

The District's most recent Acquisition Management Review was from April 30 to May 2, 2001. The review team looked at procurement actions after July 2000. The review team noted that the serious deficiencies found in the June 1998 review concerning unauthorized commitments and misuse of Fiscal Year funds had been corrected. The review team concluded that the Iowa District complied with the laws and regulations governing acquisition using Appropriated Funds.

## **HUMAN RESOURCES ISSUES**

In FY2003 the Iowa District had 5 employees participating in the Physical Fitness Program. Currently the Iowa District has 7 employees participating in FY2004. In FY2003 the cost to the District was \$750.00. In FY2004 the cost to the District has been \$200. The District Office anticipates this will increase in FY2004 when the FY2003 memberships are renewed.

The staff at the Regional Personnel Office continues its outstanding support for the Iowa District during the past year as we filled vacancies, set up details, and completed personnel actions such as promotions, reassignments, etc. Current staffing vacancies are discussed in the "Workforce Planning" section of this document.

Performance plans for all District employees were established, reviewed, and completed by the established Bureau deadlines.

The District Office will have one, possibly two, retirements this FY thereby reducing our FTE to below 40 FTE.

## **SPACE AND FACILITIES**

The District currently is in the process of reducing and reassigning space in the Iowa City office thereby reducing the cost of facilities. The Iowa City office is surrendering a total of 1,123 sq. feet of space. This should reduce the cost of rent by approximately \$20,214. The Fort Dodge office and warehouse space will be reviewed to determine a new location when the lease is up. The Iowa City office will undergo new paint and carpeting in FY2004.

## **TRAVEL ISSUES**

There was a PCS (Permanent Change of Station) move for the new Administrative Officer, in FY2003 that was primarily handled by Denver, CO. There are no planned PCS moves for FY2004.

## IV. MANAGEMENT ISSUES

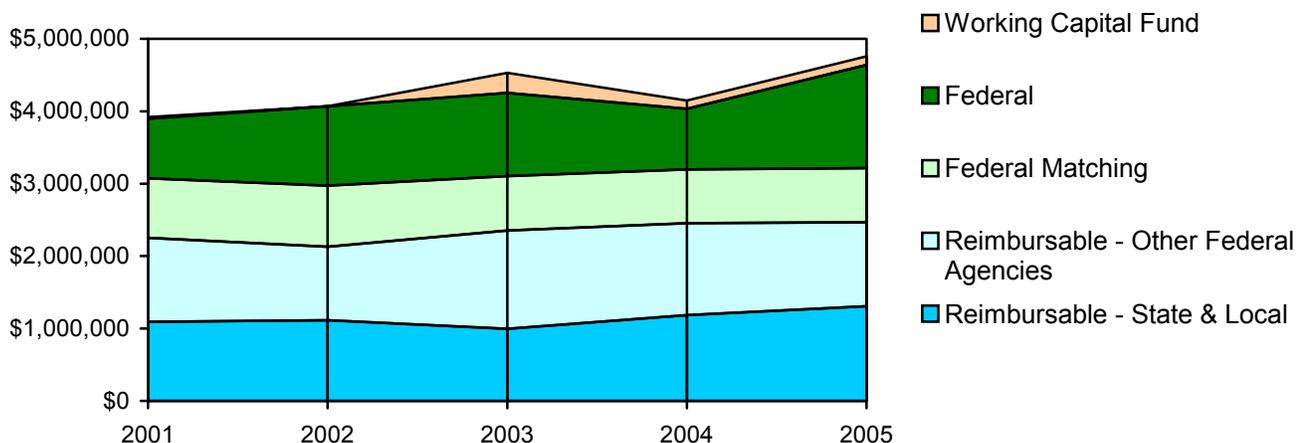


### CURRENT (FISCAL YEAR 2004) AND FUTURE FISCAL HEALTH OF THE DISTRICT

The Iowa District faces a fiscally challenging year in 2004 as Federal funding decreased by \$314,684, or 28%, in 2004 compared to 2003 (see Table 2 and Figure 1). The Federal-State Matching Funds for FY 2004 were 106% committed at the start of the fiscal year; the District's goal is to be at approximately 90% committed at the beginning of each fiscal year so that a portion of the matching fund allocation can be directed to future program development. The District formulated and implemented a program development plan in February 2004 for increasing unmatched reimbursable funding in 2005 and beyond. The plan states that the level of Federal-State Matching Funding for Joint Funding Agreements will be evaluated annually so as to set the percentage of gross funding from direct and reimbursable funding. The percentage will be established by March 1 for the following fiscal year using matching funds allocation based on the availability of direct funding and the anticipated gross funding for the upcoming fiscal year including a set level of gross funding set aside for program development. All following fiscal year Joint Funding Agreements will utilize the established percentage except multi-year agreements; multi-year agreements matching ratio are locked with the percentage for the year that the agreement was fully executed. The established percentage in FY2005 is 45% direct and 55% reimbursable funding for all new agreements. The anticipated increased unmatched reimbursable funding in 2005 based on a 45/55 matching policy is expected to be \$119,481; nearly doubling of the amount of unmatched reimbursable in FY2004. There is some concern that the State and local reimbursable customers may not be able to financially afford the substantial increase in program cost as a partner in the 2005 Federal-State Matching program based upon a 45/55 matching policy, this is particularly of concern during the current sustained depressed local and regional economy.

**Table 2—District gross funding by source and totals for Fiscal Years 2001 through 2005**

Fiscal Year	Federal	Federal-State Matching	Reimbursable - Other Federal Agencies	Reimbursable - State & Local	Working Capital Fund	Total Funding
2001	\$826,875	\$817,922	\$1,158,380	\$1,094,899	\$22,141	\$3,920,217
2002	\$1,100,359	\$841,133	\$1,015,852	\$1,113,176	\$0	\$4,070,520
2003	\$1,151,405	\$747,745	\$1,357,559	\$996,411	\$276,713	\$4,529,833
2004	\$836,721	\$742,588	\$1,265,949	\$1,187,317	\$115,814	\$4,148,389
2005	\$1,425,495	\$744,280	\$1,161,474	\$1,306,798	\$120,000	\$4,758,047



**Figure 1—District gross funding by source for Fiscal Years 2001 through 2005**

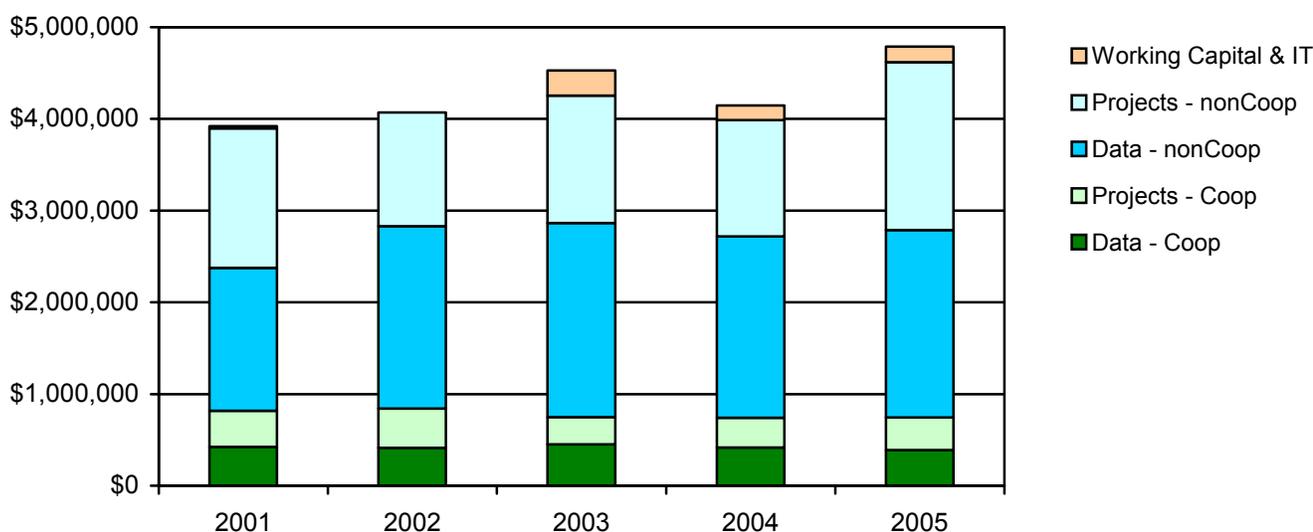
The Iowa District funding by activity from fiscal years 2001 through 2005 changed as the trend is towards an increased data program and a decrease in project funding until FY2005 (see Table 3 and Figure 2). The Federal-State Cooperative Program funding level for the data and studies programs increased and decreased from FY2001-FY2005 with changes in funding opportunities and priorities. Overall funding level for the Federal-State Cooperative Program has decreased from FY2001 to FY2005 as the program funding allocation to the District decreased. The percentage of Federal-State Cooperative Program funds allocated to the data and project programs is as follows:

Program	Percentage of Federal-State Cooperative Program Funding				
	FY2001	FY2002	FY2003	FY2004	FY2005
Data	51%	49%	60%	56%	52%
Projects	49%	51%	40%	44%	48%

The data program's largest cooperator, in respect to financial support, continues to be the USCOE (U.S. Army Corps of Engineers) although their financial support has decreased slightly in the past five years as a result of budget cuts and shifts in their priorities. There has been considerable effort by the District to seek out new and additional cooperators to fund the various data-collection programs with some success. Although new cooperators have been found, the funding level from these new partners is generally inadequate to offset decreases of USCOE funds. The USCOE has stated that the financial support for FY2003 and beyond is expected to decline, as their budgets are flat or decreasing. The IDNR (Iowa Department of Natural Resources) has greatly increased the amount of funding in the data and project programs since FY-2001. The increase in funding was the result of the IDNR's successful effort to establish a water-quality monitoring program in 2000 with a long-term commitment of appropriations from the State Legislature. The increased funds have been in all collection networks (surface water, ground water, and water quality), TMDL data collection program for lakes, ground-water modeling, and large-river monitoring.

**Table 3—District gross funding by activity and totals for Fiscal Years 2001 through 2005**

Fiscal Year	Data - Coop	Projects - Coop	Data - nonCoop	Projects - nonCoop	Working Capital Fund & IT support	Total Funding
2001	\$421,964	\$395,958	\$1,556,207	\$1,523,947	\$22,141	\$3,920,217
2002	\$411,149	\$429,984	\$1,988,390	\$1,240,997	\$0	\$4,070,520
2003	\$451,196	\$296,549	\$2,117,368	\$1,388,007	\$276,713	\$4,529,833
2004	\$417,051	\$325,537	\$1,976,590	\$1,266,727	\$162,484	\$4,148,389
2005	\$390,055	\$354,225	\$2,010,707	\$1,833,060	\$170,000	\$4,758,047

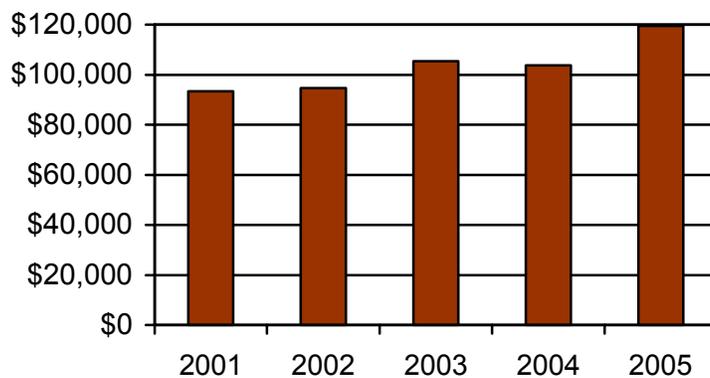


**Figure 2—District gross funding by activity for Fiscal Years 2001 through 2005**

The funding per FTE from FY 2001 through FY2005 has generally increased, from \$93,338 per FTE in FY2001 to \$118,951 per FTE in FY2005. The District made a successful effort to increase the funding per FTE to a level above \$100,000; the goal was reached in FY2003. However, the decreased funding per FTE in FY2004 reflects a substantial level of unfunded staff salaries in the District as the salary costs increased and project net funding decreased. The sizeable increase in funding per FTE in FY2005 reflects the anticipated increase in gross funding with no change in the FTE level.

**Table 4—District gross funding by FTE for Fiscal Years 2001 through 2005**

Fiscal Year	Total Gross Funding	FTE	Change	Funding per FTE
2001	\$3,920,216	42		\$93,338
2002	\$4,070,520	43	+1	\$94,663
2003	\$4,529,833	43		\$105,345
2004	\$4,148,389	40	-3	\$103,710
2005	\$4,758,047	40		\$118,951



**Figure 3—District gross funding by FTE for Fiscal Years 2001 through 2005**

## A. Workforce Planning



The District strategically utilized workforce planning to accommodate current and anticipated personnel needs. Although the District will be formulating a formal workforce plan, the District Management Team has been using workforce planning techniques and approaches for current and future staffing requirements. The workforce planning efforts have been focused on ensuring that all personnel are fully funded while ensuring the District has and will have the appropriate range of skills and abilities to address the emerging science issues. Human resource loss and gain from the period of March 2003 through March 2004 by Section was as follows:

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### ADMINISTRATIVE SERVICES SECTION

Resigned: Lisa Kanning, Administrative Clerk [Student]  
Alissa Hatch, Administrative Clerk [Student]

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### COMPUTER SERVICES SECTION

Resigned: Randy Howard, Computer Clerk [Student]

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### HYDROLOGIC DATA SECTION

Resigned: Joshua Kohl, Hydrologic Aid [Student]  
Jessica Moline, Hydrologic Aid [Student]  
Nick VanderZwan, Hydrologic Aid [Student]

Appointment expires 3/31/04: Nick Elmendorf, Hydrologic Aid [Student]  
Arron Grote, Hydrologic Aid [Student]  
Soren Rundquist, Hydrologic Aid [Student]  
Kate Segreto, Hydrologic Aid [Student]

Transferred: Kevin Housel, Hydrologic Technician [from PA District]

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### HYDROLOGIC STUDIES SECTION

Resigned: Gina Renzi, Hydrologic Aid [Student]

### ***FTE Ceiling and Plans***

FTE ceiling for the Iowa District continues at 40 FTE per fiscal year. The Region-approved FTE plan for the District in FY2004 is 39.55 FTE count from October 1, 2003 through September 30, 2004. All student appointments within the District expire March 31, 2004; as of April 1, 2004 all staff members in the District will be permanent full-time employees. One retirement has been announced for June 2, 2004.

### ***Workforce Plan***

A formal workforce plan has not been formulated for the District; the District is currently anticipating guidance from Region on the formulation and utilization of a formal workforce plan.



# IOWA DISTRICT

April 2004

**OFFICE OF THE DISTRICT CHIEF**  
 Rob Middlemis-Brown      Supervisory Hydrologist GS-14  
 Kaylene Carney      Information & Education Specialist GS-7

**ADMINISTRATIVE SERVICES SECTION**  
 Jamie Lapp      Administrative Officer GS-11  
 Kandis Becher      Administrative Operations Spec GS-9  
 Lawana Hixon      Administrative Operations Asst GS-7

**COMPUTER SERVICES SECTION**  
 Shawn Noble      Info Technology Spec GS-13  
 Brain Lehan Mackin      Info Technology Spec GS-7

**HYDROLOGIC STUDIES SECTION**  
 Bob Buchmiller      Supervisory Hydrologist GS-13  
 Dana Kolpin      Research Hydrologist GS-14  
 Jim Caldwell      Hydrologist GS-12  
 Ed Fischer      Hydrologist GS-12  
 Dave Eash      Hydrologist GS-12  
 Greg Littin      Hydrologist GS-11  
 Dan Christiansen      Hydrologist GS-9  
 Jason Smith      Hydrologic Technician GS-6

**NAWQA UNIT**  
 Steve Kalkhoff      Supervisory Hydrologist GS-13  
 Doug Schnoebelen      Research Hydrologist GS-13  
 Kent Becher      Hydrologist GS-12  
 Kymm Barnes      Hydrologist GS-12

**HYDROLOGIC DATA SECTION**  
 Greg Nalley      Supervisory Hydrologist GS-13  
 Von Miller      Hydrologic Technician GS-11

**SEDIMENT LABORATORY**  
 Pam Smith      Hydrologic Technician GS-8  
 Julie Noe      Hydrologic Technician GS-6  
 Jeff Hansen      Hydrologic Technician GS-4

**EASTERN FIELD UNIT**  
 Doug Goodrich      Supervisory Hydrologic Technician GS-12  
 Mike Linhart      Hydrologist GS-11  
 Jon Nania      Hydrologist GS-11  
 Jim Cerveny      Hydrologic Technician GS-9  
 Jason McVay      Hydrologic Technician GS-9  
 Kevin Houseel      Hydrologic Technician GS-8  
 Aimee Donnelly      Hydrologic Technician GS-7  
 Scott Strader      Hydrologic Technician GS-6

**WESTERN FIELD UNIT**  
 Joe Gorman      Supervisory Hydrologic Technician GS-12  
 Al Conkling      Lead Hydrologic Technician GS-10  
 Rich Kopish      Hydrologic Technician GS-10  
 Dave Conell      Hydrologic Technician GS-10  
 Jim Sondag      Hydrologic Technician GS-10  
 Jeff Harms      Hydrologic Technician GS-8  
 Matt Noon      Hydrologic Technician GS-8  
 Scott Thul      Hydrologic Technician GS-6

**DISTRICT MANAGEMENT TEAM**

District Chief  
 Administrative Officer  
 Chief, Hydrologic Studies Section  
 Chief, Hydrologic Data Section  
 Chief, Computer Services Section

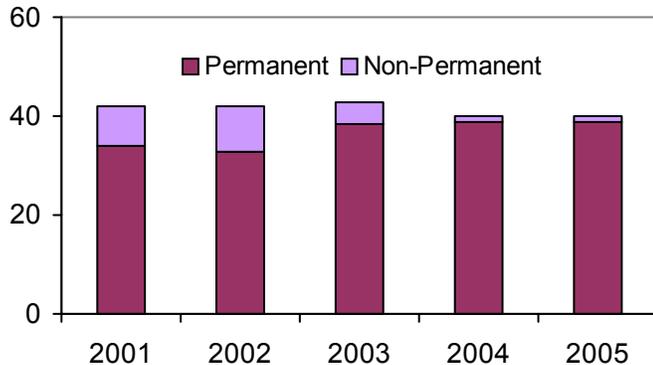
**SPECIALISTS AND COORDINATORS**

Reports Specialist	Ed Fischer
GIS Specialist	Kymm Barnes
Ground Water Specialist	Jim Caldwell
Surface Water Specialist	Jon Nania
Water Quality Specialist	Doug Schnoebelen
Safety Officer	Matt Noon
Training Officer	Bob Buchmiller
Flood Coordinator	Greg Nalley
Communications Specialist	Kaylene Carney

## *Personnel – Anticipated changes and concerns*

### Permanent and Non-Permanent

The ratio of non-permanent to permanent staff generally decreased from FY2001 to FY2005 (see Figure 4). The number of non-permanent staff dropped substantially in Fiscal Year 2003 as several non-permanent employees were converted to permanent. The number of non-permanent staff again decreased in FY2004 as appointments for non-permanent staff were not extended so as to meet the FTE ceiling of 40 FTE; no additional FTE are anticipated for FY2005.



**Figure 4—FTE for permanent and non-permanent for Fiscal Years 2001 through 2005**

### Number of Diverse Employees and Ratio of Total

All vacancies and recruitment efforts have been focused on increasing diversity within the District. The population diversity in Iowa is relatively limited which is currently reflected in the present District staffing diversity. Efforts to improve USGS diversity have been through expansion of recruitment efforts that focus on under-represented groups through job fairs and wider distribution of vacancy advertisements. The District will have the opportunity to utilize a diverse employee from the Gateway Community College in Tempe, Arizona during from May 15, 2005 through September 15, 2004; the employee will be working in the Studies Section.

### Contract Employees

The District has had excellent results from using contract employees in the past. The District has contracted with the Iowa State Water Resources Research Institute for internship positions in past years with great success. The District has also had success in utilizing several staff details for filling program needs in the Administrative Services Section (Acting Administrative Officer and Administrative Operations Assistant) from the Minnesota and Nebraska Districts, respectively, and for the Hydrologic Studies Section (ground-water modeling and geochemistry) from the South Dakota, New Mexico Districts, and Yucca Mountain Project in Colorado.

## B. Information Dissemination



### *Reports*

The Iowa District does not have a publication section and relies on publication personnel from other Districts to provide final report processing, camera-ready formatting, and publishing services. Overall, the system has worked well and the District has utilized several publication units within the Central Region to provide the above services. Authors are expected to prepare clear and legible draft manuscripts suitable for technical review and regional approval.

The District has recently documented what had been informally understood as the report review and approval process. The new document defines the role of the report author and illustrates the steps to attaining report approval. The document is listed on the District Intranet at <http://sw2daiwc.cr.usgs.gov/usgs/reports/rrap.pdf>

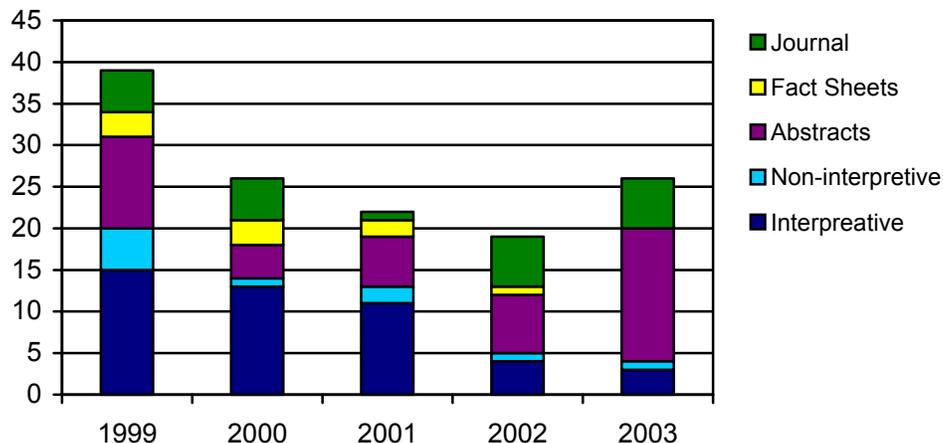
Currently (2-1-04), there are no reports being processed for which funding has expired. Table 5 is a list of reports published in the calendar year 2003. Table 6 is a summary of report production from FY1999 to FY2003. Table 7 lists the reports that are past due as of February 1, 2003. Table 8 is a list of reports approved but not published.

**Table 5—Reports and journal articles published in calendar year 2003**

Report Name	Source of Funds	Report Type	Delivery Dates	
			Planned	Actual
Main-Channel Slopes of Selected Streams in Iowa for Estimation of Flood-frequency Discharges	COOP	WRIR	2003	2003
Water-Quality Assessment of the Eastern Iowa Basins: Selected pesticides and pesticide degradates in streams 1996-98	FED	WRIR	2001	2003
Herbicides and Herbicide Degradation Products in Upper Midwest Agricultural Streams during August Base-Flow Conditions	FED	JA	--	2003
Bathymetric Mapping, Sediment Quality, and Water Quality of Lake Delhi, Iowa, 2001-2002	COOP	WRIR	2002	2003
Direct assessment of groundwater vulnerability from single observations of multiple compounds	FED	JA	--	--
Are veterinary medicines causing environmental risks?	FED	JA	--	--
Response to comment on "Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: A national reconnaissance"	FED	JA	--	--
Determining the Occurrence of Glyphosate, its Transformation Product AMPA, Other Herbicide Compounds, and Antibiotics in Midwestern US Streams, 2002: A Work Plan	FED	OFR	--	--
Pharmaceuticals, hormones, personal-care products, and other organic wastewater contaminants in water resources -- recent research activities of the U.S. Geological Survey Toxic Substances Hydrology Program:	FED	Conference Proceedings	--	--
Agricultural hydrology and water quality: Proceedings of the AWRA 2003 Spring Specialty Conference	FED	Conference Proceeding	--	--

**Table 6—Summary of report production for Fiscal Years 1999 through 2003**

FY	Interpretative	Non-interpretive/Data	Abstracts	Fact Sheets	Journal	Total	Total Gross Funding per Report
1999	15	5	11	3	5	39	\$111,304
2000	13	1	4	3	5	26	\$169,479
2001	11	2	6	2	1	22	\$178,192
2002	4	1	7	1	6	19	\$214,238
2003	3	1	16	0	6	26	\$174,224



**Figure 5—Histogram of report production for Fiscal Years 1999 through 2003**

**Table 7—Status of past-due reports as of January 1, 2004**

Project Number (End date)	Complete title of report, author and series	Status	Date to Region (Goal)
	none		

**Table 8—Status of reports approved but not published as of January 1, 2004**

Project Number	Report short title, author and series	Year Approved	Current Status
85919OK	Cahill J.D., Furlong E.T., Burkhardt M.R., Kolpin D.W., Anderson L.G.; Determination of pharmaceutical compounds in surface- and ground-water samples by solid-phase extraction and high-performance liquid chromatography/electrospray ionization mass spectrometry; JA	FY03	In press (Journal of Chromatography)
85919OK	Focazio, M.J., Kolpin, D.W., Furlong, E.T.; Occurrence of human pharmaceuticals in water resources in the United States: A review: in Kummerer, K. (ed), Pharmaceuticals in the environment: Sources, fate, effects, and risks; book	FY03	In press
85919OK	Barnes, K.K., Christenson, S.C., Kolpin, D.W., Focazio, M.J., Furlong, E.T., Zaugg, S.D., Meyer, M.T., Pharmaceuticals and other organic wastewater contaminants within a leachate plume down gradient of a municipal landfill; JA	FY04	In journal review (Ground Water Monitoring Review)
85919OK	Cordy, G., Duran, N., Bower, H, Rice, R., Kolpin, D.W., Furlong, E.T., Zaugg, S.D., Meyer, M.T., Barber, L.B., Do pharmaceuticals, pathogens, and other organic wastewater compounds persist when wastewater is used for recharge?; JA	FY04	In journal review (Ground Water Monitoring Review)
85919OK	Kolpin, D.W., Skopec, M., Meyer, M.T., Furlong, E.T., Zaugg, S.D., Urban contribution of pharmaceuticals and other organic wastewater contaminants to streams during differing flow conditions:	FY03	In journal review (Science of the Total Environment)
85919MT	Littin, G.R., Quality of Ground Water Used for Selected Municipal Water Supplies in Iowa, 1997-2002 Water Years; OFR	FY04	At pub unit
85919BI	Worrall F., and Kolpin, D.W.; Aquifer vulnerability to pesticide pollution. combining soil, land- use and aquifer properties with molecular descriptors; JA	FY03	In press (Journal of Hydrology)
85919BI	Kolpin, D.W., Schnoebelen, D.J., Thurman, E.M., 2004, Degradates provide insight to spatial and temporal distribution of herbicides in ground water; JA	FY03	In press (Ground Water)
85919BI	Worrall, F., and Kolpin, D.W., Combining chemistry with land-use, soil and aquifer properties -- towards a generalized linear model of groundwater pollution by pesticides; JA	FY02	In press (ES&T).

District Website

The Iowa District has one web server that provides internal (USGS) data and one web server that provides external products such as NWIS data and reports to the internet. The two web servers are running Apache Server on a Sun Ultra 5 workstation running Solaris 8. The websites are maintained by the Computer Services Section (CSS) of the Iowa District. Some users are given access to specific web areas so they can make changes to their web pages. Most web postings are given to the CSS to perform web updates. The Iowa District plans to move the external web server to the NatWeb system by April 30. Web pages that will be accessible externally must be approved by the District Chief.

Products/information Dissemination that has made a difference

Data and map products produced for the lake bathymetry project have resulted in increased program potential (see Status of Data Program). This topic was presented at last year's technical transfer meeting in Denver in August 2003.

**C. Funding**

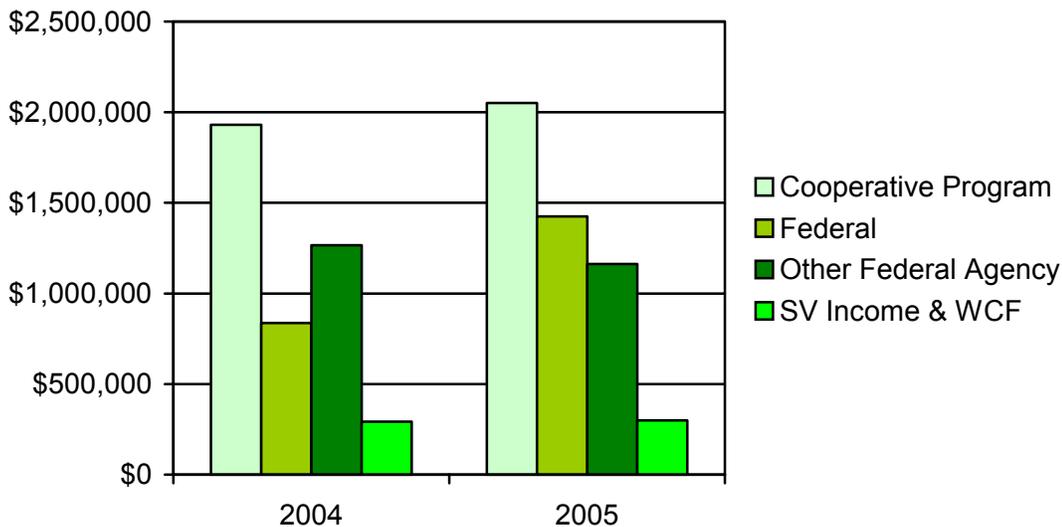


Funding levels from FY2004 to FY2005 is anticipated to change substantially with an increase in the level of funding in the Federal program and an increase in unmatched reimbursable funding within the Federal-State Cooperative Program. The increased Federal Funding is for the Eastern Iowa Basins NAWQA unit as the study unit begins the second cycle's high intensity phase in FY2005 with anticipated inclusion in both the ACT and NEET topical teams. The increase in unmatched reimbursable Federal-State Cooperative Program funding is almost entirely due to the implementation of the 55/45 match ratio policy for FY2005; however, the estimated FY2005 District allocation of Federal-State Cooperative Program funding is likely too high as the President's budget for FY2005 for the Program indicates an overall decrease in funding. The

Other Federal Agency funding has a decrease in FY2005 as the DODEC program funding is anticipated to decrease while RCRA funding from USEPA slightly increases and the streamgaging funding from USCOE slightly decreases due to USCOE budget decreases. The Standard Voucher (SV) income to the District is expected to have an inflationary increase as it is primarily for the Iowa Sediment Laboratory from the billing to other Cost Centers for laboratory sample costs.

**Table 9—Program summary by funding type for all programs Fiscal Years 2004 and 2005**

Customer Type	2004	2005	Difference
Cooperative Program	\$1,929,905	\$2,051,078	\$121,173
Federal	\$836,721	\$1,425,495	\$588,774
Other Federal Agency	\$1,265,949	\$1,161,474	(\$104,475)
Subtotal	\$4,032,575	\$4,638,047	\$605,472
SV Income & WCF	\$292,576	\$300,000	\$7,424
Total	\$4,325,151	\$4,969,195	\$644,044



**Figure 6—Program summary by funding type for all programs Fiscal Years 2004 and 2005**

**Table 10a—Customer funds report by account for Fiscal Years 2004 and 2005**

Fiscal Year 2004

ACCNT NO /PRJ CODE	SHORT PRJ NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UN-MATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
8691001	SW Prog	\$166,493		\$835,045	\$245,774		\$253,240	\$245,774	\$3,596	\$1,749,922
8691002	GW Prog	\$5,035			\$38,852		\$19,148	\$38,852		\$101,887
8591003	QW Prog	\$107,127			\$6,946		\$2,387	\$6,946		\$123,406
8591004	Sediment			\$124,360	\$59,915		\$20,585	\$59,915		\$264,775
8591005	NADP	\$6,000								\$6,000
8591006	Crest-Stage				\$51,572		\$17,718	\$51,572		\$120,862
85919BI	NAWQA	\$224,800								\$224,800
85919MO	Cedar River				\$82,988		\$43,512	\$82,988		\$209,488
85919MT	GW QW				\$88,868		\$30,532	\$88,868		\$208,268
85919NR	Floods				\$33,493		\$11,507	\$33,493		\$78,493
85919NS	RCRA			\$150,000						\$150,000
85919NT	DODEC			\$156,544						\$156,544
85919NV	GW Model				\$35,837		\$12,313	\$35,837		\$83,987
85919NY	Walnut Ck				\$20,937		\$7,193	\$20,937		\$49,067
85919OK	Toxics	\$277,000								\$277,000
8591AKQ	Sioux City				\$4,466		\$1,534	\$4,466		\$10,466
8591BBE	Big Rivers				\$72,940		\$25,060	\$72,940		\$170,940
8591OAZ	DIS/WCF	\$46,670	\$115,814							\$162,484
Totals		\$833,125	\$115,814	\$1,265,949	\$742,588	\$0	\$444,729	\$742,588	\$3,596	\$4,148,389

Fiscal Year 2005

ACCNT NO /PRJ CODE	SHORT PRJ NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UN-MATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
8691001	SW Prog	\$173,927		\$823,363	\$241,680		\$241,102	\$241,680	\$4,273	\$1,726,025
8691002	GW Prog	\$5,211			\$36,190		\$23,239	\$36,190		\$100,830
8591003	QW Prog	\$110,874								\$110,874
8591004	Sediment			\$133,111	\$27,905		\$17,920	\$27,905		\$206,841
8591005	NADP	\$6,210								\$6,210
8591006	Crest-Stage				\$48,032		\$30,844	\$48,032		\$126,908
85919BI	NAWQA	\$800,000								\$800,000
85919MO	Cedar River				\$74,688		\$47,962	\$74,688		\$197,338
85919MT	GW QW				\$82,777		\$53,156	\$82,777		\$218,710
85919NQ	Muscatine				\$26,961		\$17,314	\$26,961		\$71,236
85919NR	Floods				\$31,148		\$20,002	\$31,148		\$82,298
85919NS	RCRA			\$165,000						\$165,000
85919NT	DODEC			\$40,000						\$40,000
85919NV	GW Model				\$4,466		\$1,534	\$4,466		\$10,466
85919NY	Walnut Ck				\$19,502		\$12,524	\$19,502		\$51,528
85919OK	Toxics	\$275,000								\$275,000
8591BBE	Big Rivers				\$97,463		\$62,587	\$97,463		\$257,513
8591XXX	Watersheds				\$19,975		\$12,827	\$19,975		\$52,777
8591XXX	Prog Dev				\$33,493		\$21,507	\$33,493		\$88,493
8591OAZ	DIS/WCF	\$50,000	\$120,000							\$170,000
Totals		\$1,421,222	\$120,000	\$1,161,474	\$744,280	\$0	\$562,518	\$744,280	\$4,273	\$4,758,047

**Table 10b—Customer Funds by Customer for Fiscal Years 2004 and 2005**

Fiscal Year 2004

CUST NO	CUSTOMER NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UN-MATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
OP4XX	Federal - USGS	\$833,125							\$3,596	\$836,721
25501	Working Capital Fund		\$115,814							\$115,814
9X401	Corps of Engineers			\$901,995						\$901,995
350XX	Corps of Engineers (MIPR)			\$57,410						\$57,410
32077	Department of Defense			\$156,544						\$156,544
51007	USEPA Region 7			\$150,000						\$150,000
IA001	Iowa DOT				\$138,125		\$47,455	\$138,125		\$323,705
IA002	Iowa State University				\$4,477		\$1,538	\$4,477		\$10,492
IA004	Iowa DNR - IGS				\$339,360		\$130,364	\$339,360		\$809,084
IA005	University of Iowa				\$8,117		\$4,390	\$8,117		\$20,624
IA006	City of Cedar Rapids				\$87,464		\$30,051	\$87,464		\$204,979
IA007	City of Fort Dodge				\$2,597		\$893	\$2,597		\$6,087
IA011	City of Des Moines				\$17,907		\$30,213	\$17,907		\$66,027
IA019	Hydraulics Institute						\$87,023			\$87,023
IA034	City of Davenport				\$8,954		\$3,076	\$8,954		\$20,984
IA035	City of Ames				\$4,477		\$1,538	\$4,477		\$10,492
IA037	City of Clinton						\$25,990			\$25,990
IA038	City of Sioux City				\$12,668		\$4,352	\$12,668		\$29,688
IA039	City of Coralville				\$4,713		\$1,619	\$4,713		\$11,045
IA041	City of Iowa City				\$4,713		\$1,619	\$4,713		\$11,045
IA042	City of Marshalltown				\$4,477		\$1,538	\$4,477		\$10,492
IA044	City of Charles City				\$2,813		\$967	\$2,813		\$6,593
IA046	City of Waterloo				\$4,477		\$2,138	\$4,477		\$11,092
IA048	Des Moines Water Works				\$5,895		\$16,075	\$5,895		\$27,865
IA054	City of Cedar Falls				\$2,240		\$770	\$2,240		\$5,250
IA065	City of Bettendorf				\$889		\$306	\$889		\$2,084
IA071	City of Decorah				\$4,477		\$1,538	\$4,477		\$10,492
IA072	Buchanan County EMA				\$2,240		\$770	\$2,240		\$5,250
IA075	Lake Delhi Association				\$4,477		\$1,538	\$4,477		\$10,492
IA078	City of Waverly				\$4,477		\$1,538	\$4,477		\$10,492
IA080	Iowa Valley RC&D				\$6,946		\$2,387	\$6,946		\$16,279
IA081	IDNR - WQ Bureau				\$65,608		\$37,543	\$65,608		\$168,759
NE066	City of Omaha						\$7,500			\$7,500

Totals		\$833,125	\$115,814	\$1,265,949	\$742,588	\$0	\$444,729	\$742,588	\$3,596	\$4,148,389
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**Table 10b—Customer Funds by Customer for Fiscal Years 2004 and 2005 (continued)**

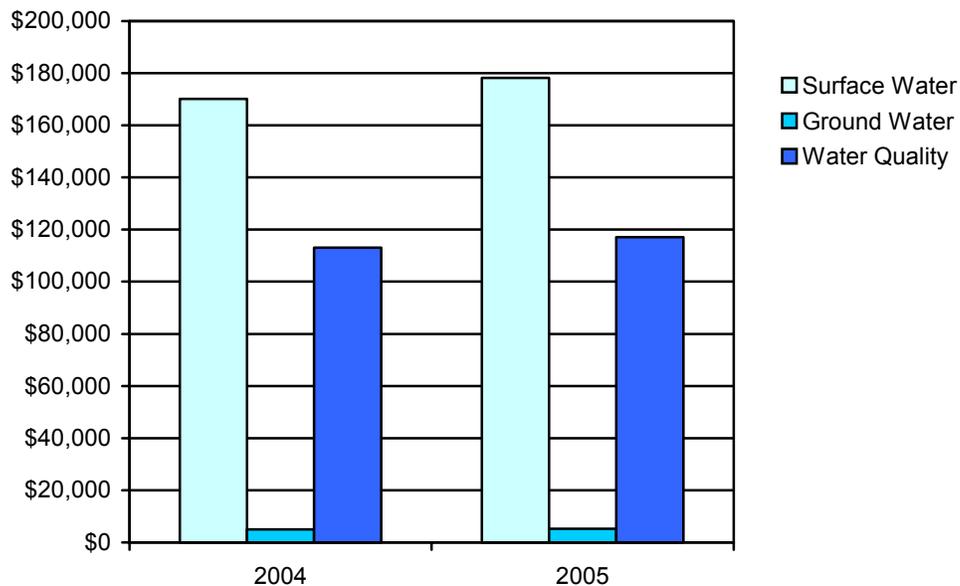
Fiscal Year 2005

CUST NO	CUSTOMER NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UN-MATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
OP4XX	Federal - USGS	\$1,421,222							\$4,273	\$1,425,495
25501	Working Capital Fund		\$120,000							\$120,000
9X401	Corps of Engineers			\$870,177						\$870,177
350XX	Corps of Engineers (MIPR)			\$86,297						\$86,297
32077	Department of Defense			\$40,000						\$40,000
51007	USEPA Region 7			\$165,000						\$165,000
IA001	Iowa DOT				\$148,582		\$95,407	\$148,582		\$392,571
IA002	Iowa State University				\$4,170		\$2,678	\$4,170		\$11,018
IA004	Iowa DNR - IGS				\$355,179		\$228,070	\$355,179		\$938,428
IA005	University of Iowa				\$8,116		\$5,222	\$8,116		\$21,454
IA006	City of Cedar Rapids				\$78,859		\$50,639	\$78,859		\$208,357
IA007	City of Fort Dodge				\$2,420		\$1,553	\$2,420		\$6,393
IA011	City of Des Moines				\$18,534		\$31,270	\$18,534		\$68,338
IA019	Hydraulics Institute				\$936		\$36,330	\$936		\$38,202
IA034	City of Davenport				\$8,340		\$5,356	\$8,340		\$22,036
IA035	City of Ames				\$4,170		\$2,678	\$4,170		\$11,018
IA036	Muscatine Water & Light				\$26,961		\$17,314	\$26,961		\$71,236
IA037	City of Clinton						\$26,900			\$26,900
IA038	City of Sioux City				\$6,937		\$4,454	\$6,937		\$18,328
IA039	City of Coralville				\$4,388		\$2,821	\$4,388		\$11,597
IA041	City of Iowa City				\$4,388		\$2,821	\$4,388		\$11,597
IA042	City of Marshalltown				\$4,170		\$2,678	\$4,170		\$11,018
IA044	City of Charles City						\$3,912			\$3,912
IA046	City of Waterloo				\$4,378		\$2,811	\$4,378		\$11,567
IA048	Des Moines Water Works				\$8,281		\$5,317	\$8,281		\$21,879
IA054	City of Cedar Falls				\$2,087		\$1,340	\$2,087		\$5,514
IA065	City of Bettendorf				\$828		\$532	\$828		\$2,188
IA071	City of Decorah				\$4,170		\$2,678	\$4,170		\$11,018
IA072	Buchanan County EMA				\$2,087		\$1,340	\$2,087		\$5,514
IA075	Lake Delhi Association				\$4,170		\$2,678	\$4,170		\$11,018
IA078	City of Waverly				\$4,170		\$2,678	\$4,170		\$11,018
IA081	IDNR - WQ Bureau				\$4,466		\$1,534	\$4,466		\$10,466
IAXXX	Program Development				\$33,493		\$21,507	\$33,493		\$88,493
Totals		\$1,421,222	\$120,000	\$1,161,474	\$744,280	\$0	\$562,518	\$744,280	\$4,273	\$4,758,047

The amount of surface-water program funding in FY2004 and FY2005 has an inflationary increase compared to previous years, primarily because of the increase in the National Streamflow Information Program (NSIP) funding for the new Federal streamgages. The ground-water program funding continues to remain minimal in FY2004 and FY2005 for the few wells still part of the national network. The water-quality program funding in FY2004 and FY2005 has inflationary increases; the program continues to be primarily the National Stream Quality Accounting Network (NASQAN) for two sites in Iowa on the Mississippi River and the Missouri River, for sediment collection, and for the two National Atmospheric and Deposition program sites in Iowa.

**Table 11—Federal CBR program Fiscal Years 2004 and 2005**

Account Numbers	Programs	2004	2005
8591001	Surface Water	\$170,089	\$178,200
8591002	Ground Water	\$5,035	\$5,211
8591003 8591004 8591005	Water Quality	\$113,127	\$117,084
Total		\$288,251	\$300,495



**Figure 7— Federal CBR program Fiscal Years 2004 and 2005**

**Table 12—Projects to be completed in Fiscal Year 2004**

Project Number	Project Name	Customer	Funds
8591-00310	Floristic Water Quality Sampling	Iowa Valley RC&D	\$18,666
8591-AKQ	Sioux City Bathymetry	City of Sioux City	\$12,000

**Federal-State Cooperative Program funds for Fiscal Years 2004 will be reprogrammed for Fiscal Year 2005 based upon the following:**

<u>Project Number</u>	<u>Change from FY2004-2005</u>	<u>Remarks</u>
8591-001	(\$4,094)	inflation/program decrease
8591-002	(\$2,662)	inflation/program decrease
8591-003	(\$6,946)	project completed
8591-004	(\$32,010)	inflation increase/unmatched increase
8591-006	(\$3,540)	inflation increase/unmatched increase
8591-9MO	(\$8,300)	unmatched increase
8591-9MT	(\$6,091)	unmatched increase
8591-9NQ	\$26,961	proposed program
8591-9NR	(\$2,345)	inflation increase/unmatched increase
8591-9NV	(\$31,371)	planned decrease
8591-9NY	(\$1,435)	inflation increase/unmatched increase
8591-AKQ	(\$4,466)	project completed
8591-BBE	\$24,523	planned program increase
IDOT	\$19,975	proposed program
Prog Dev	\$33,493	new program development funding

**\$1,692 change in funds from FY2004 to FY2005 – additional matching funds needed**

**Table 13—DOI Cost Share Program in Fiscal Years 2003 and 2004**

Project Number	Project Name	Customer	Funding Amount: USGS/DOI	Project Duration
8591-003	EFMO QW	NPS- EFMO	\$5,173: \$1,798/\$3,375	4/1/2003 – 9/30/2003
8591-003	HEHO Floodplain	NPS-HEHO	\$5,173: \$1,798/\$3,375	4/1/2003 – 9/30/2003
8591-003	EFMO QW	NPS- EFMO	\$16,773: \$1,773/\$15,000*	4/1/2004 – 9/30/2004
8591-003	HEHO QW	NPS-HEHO	\$7,500: \$2,500/\$5,000	4/1/2004 – 9/30/2004

\* direct services

The District had two projects with the National Park Service in FY2003. The first project was for providing water-quality monitoring and analysis at the EFMO (Effigy Mounds National Monument) in northeastern Iowa. The project involved flow measurements and water-quality sampling of the Yellow River upstream of EFMO. EFMO concerns are related to the TMDL issues for the Yellow River and the rapidly changing conditions of the river due to land use changes and upstream wastewater discharges. The second project was for HEHO (Herbert Hoover Historic Site) in east-central Iowa. The project was mapping of the 5-, 10-, 25-, 50-, and 100-year flood inundations areas within the site.

The District is likely to have two projects in FY2004 with EFMO and HEHO. The EFMO project would be Phase Two of the Yellow River project with additional surface-water and water-quality measurements. The EFMO contribution will be \$15,000 in direct services of water-quality sampling and analysis; USGS DOI funding will be \$1,773. The HEHO project will be a demonstration project of using a multi-parameter water-quality meter at the Hoover Creek streamgauge; displaying real-time water-quality information on the Internet. The HEHO reimbursable funding will be \$5,000; USGS DOI funding will be \$2,500.

## D. Budget



The summary of District expenditures for FY2001 through FY2005 is listed by major object-class code in Table 14; actual expenditures are given for FY2001 through FY2003 while estimates are given for FY2004 and FY2005. The District's common services budget for FY2004, as approved by OPS and currently in BASIS+, is provided in Table 15.

**Table 14—Summary of District Expenditures for Fiscal Years 2001 through 2005**

Object Class Description	FY 2001	%	FY 2002	%	FY 2003	%	FY 2004	%	FY 2005	%
Full-Time Permanent	\$1,783,041	46%	\$1,923,417	47%	\$2,131,652	47%	\$2,188,993	50%	\$2,243,040	47%
Awards - Monetary	\$19,636	1%	\$18,655	<1%	\$23,692	1%	\$20,000	<1%	\$20,000	<1%
Overtime	\$15,647	<1%	\$19,538	<1%	\$23,525	1%	\$16,300	<1%	\$46,700	1%
Personnel Benefits	\$460,719	12%	\$501,671	12%	\$582,433	13%	\$617,379	14%	\$641,300	13%
Travel	\$146,121	4%	\$122,364	3%	\$169,798	4%	\$135,700	3%	\$151,200	3%
Transportation	\$8,598	<1%	\$7,249	<1%	\$23,976	1%	\$61,560	1%	\$68,300	1%
Rental - GSA	\$0	<1%	\$212,856	5%	\$237,058	5%	\$256,497	6%	\$265,600	6%
Rental - Others	\$49,171	1%	\$53,082	1%	\$58,423	1%	\$58,848	1%	\$83,700	2%
Communication & Utilities	\$123,334	3%	\$121,800	3%	\$124,116	3%	\$104,800	2%	\$126,900	3%
Printing & Reproduction	\$2,761	<1%	\$0	<1%	\$6,558	<1%	\$23,934	1%	\$48,300	1%
Training	\$7,291	<1%	\$5,240	<1%	\$29,332	1%	\$268,516	6%	\$78,800	2%
Other Services	\$14,884	<1%	\$67,534	2%	\$72,628	2%	\$34,359	1%	\$143,500	3%
Goods & Services	\$217,759	6%	\$179,289	4%	\$159,605	4%	\$139,793	3%	\$179,500	4%
Facilities	\$0	<1%	(\$214)	<1%	\$0	<1%	\$6,000	<1%	\$16,000	<1%
Medical Care	\$0	<1%	\$0	<1%	\$0	<1%	\$250	<1%	\$250	<1%
Equipment	\$36,591	1%	\$61,874	2%	\$24,825	1%	\$27,000	1%	\$63,800	1%
Supplies & Materials	\$226,177	6%	\$223,953	6%	\$164,232	4%	\$135,300	3%	\$152,000	3%
Equipment	\$244,496	6%	\$151,916	4%	\$429,866	10%	\$58,736	1%	\$157,200	3%
Insurance	\$0	<1%	\$0	<1%	\$0	<1%	\$2,500	<1%	\$6,300	<1%
Discipline/Bureau Burden	\$562,149	14%	\$397,865	10%	\$257,825	6%	\$258,930	6%	\$295,900	6%
<b>Total Expenditures</b>	<b>\$3,918,375</b>		<b>\$4,068,089</b>		<b>\$4,519,543</b>		<b>\$4,415,395</b>		<b>\$4,788,290</b>	

### Cost Center Burden Rates for FY2004

Burden Rate Category	Rates	
	Gross	Net
Total Facilities-Related Indirect Costs: \$312,500	10.82%	12.14%
Total Common Services Indirect Costs: \$439,056	14.57%	17.06%
Total Common Services Distributed Direct Costs: \$531,206		26.00%
Bureau Rate	11.00%	
Special Bureau Rate [not utilized]	3.00%	
Special Cost Center Rate [not utilized]	3.00%	
Appropriated Discipline Costs [Federal-State Cooperative Program]	11.73%	

**Table 15—Fiscal Year 2004 Cost Center Common Services Budget**

Category	Total Eligible Common Services Costs	Direct Costs	Distributed Direct Costs [26% of Net]	Indirect Costs [14.7% of Gross]
<b>Office Management:</b>	<b>\$334,341</b>	<b>\$0</b>	<b>\$220,782</b>	<b>\$113,560</b>
Cost Center Chief	\$113,560	\$0	\$0	\$113,560
Section Chief - Studies	\$112,457	\$0	\$112,457	\$0
Section Chief - Data	\$103,360	\$0	\$103,360	\$0
Unit Chief - Studies	\$4,965	\$0	\$4,965	\$0
<b>Administration:</b>	<b>\$178,875</b>	<b>\$0</b>	<b>\$0</b>	<b>\$178,875</b>
Administrative Officer	\$63,219	\$0	\$0	\$63,219
Administrative Operation Specialist	\$62,971	\$0	\$0	\$62,971
Administrative Operations Assistant	\$52,685	\$0	\$0	\$52,685
<b>Operations:</b>	<b>\$44,300</b>	<b>\$5,000</b>	<b>\$20,000</b>	<b>\$19,300</b>
Travel	\$10,000	\$0	\$0	\$10,000
Postage and Shipping	\$1,000	\$0	\$0	\$1,000
Employee Assistance	\$800	\$0	\$0	\$800
Awards	\$25,000	\$0	\$20,000	\$5,000
Safety Activities	\$5,000	\$5,000	\$0	\$0
Tort Claims (first \$2500 per claim)	\$2,500	\$0	\$0	\$2,500
<b>Computer Support:</b>	<b>\$261,969</b>	<b>\$0</b>	<b>\$261,969</b>	<b>\$0</b>
System Administrator	\$103,878	\$0	\$103,878	\$0
Computer Specialist	\$48,292	\$0	\$48,292	\$0
Computer Student support	\$22,798	\$0	\$22,798	\$0
Travel to field offices	\$2,000	\$0	\$2,000	\$0
Training	\$3,000	\$0	\$3,000	\$0
Other Contract Services.	\$24,000	\$0	\$24,000	\$0
Software Acquisition and Development	\$3,000	\$0	\$3,000	\$0
Network Telecom Charges	\$33,000	\$0	\$33,000	\$0
ADP Equipment	\$22,000	\$0	\$22,000	\$0
<b>Local Laboratories:</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$1,500</b>	<b>\$0</b>
Laboratory Operations (QA/QC)	\$1,500	\$0	\$1,500	\$0
<b>Outreach:</b>	<b>\$55,826</b>	<b>\$0</b>	<b>\$0</b>	<b>\$55,826</b>
Travel to meetings/conferences	\$2,000	\$0	\$0	\$2,000
Exhibit Booth/Conferences	\$3,000	\$0	\$0	\$3,000
Public Affairs/Information Officer	\$50,826	\$0	\$0	\$50,826
<b>Training (Travel and Tuition):</b>	<b>\$52,000</b>	<b>\$46,000</b>	<b>\$0</b>	<b>\$6,000</b>
Mandatory Training	\$3,000	\$0	\$0	\$3,000
General Training	\$3,000	\$0	\$0	\$3,000
Technical Training	\$46,000	\$46,000	\$0	\$0
<b>Communications Systems:</b>	<b>\$44,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$44,000</b>
Telecommunications (FTS 2001)	\$28,000	\$0	\$0	\$28,000
Local Telephones	\$12,000	\$0	\$0	\$12,000
Field Cellular Telephones	\$4,000	\$0	\$0	\$4,000
<b>Program Development and Planning:</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$10,000</b>	<b>\$0</b>
Program Development and Planning	\$10,000	\$0	\$10,000	\$0
<b>Office and Production Supplies:</b>	<b>\$6,700</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,700</b>
Office Supplies	\$5,000	\$0	\$0	\$5,000
Production Supplies	\$1,700	\$0	\$0	\$1,700
<b>Specialists - Technical Support:</b>	<b>\$61,239</b>	<b>\$39,489</b>	<b>\$16,955</b>	<b>\$4,795</b>
Discipline Specialists - GW (10%)	\$8,825	\$7,465	\$1,360	\$0
Discipline Specialists - SW (10%)	\$6,312	\$5,346	\$966	\$0
Discipline Specialists - WQ (20%)	\$19,881	\$15,590	\$4,291	\$0
Discipline Specialists - GIS (10%)	\$7,864	\$6,235	\$1,629	\$0
Database Officer (10%)	\$7,561	\$4,853	\$2,708	\$0
Safety Officer (10%)	\$4,795	\$0	\$0	\$4,795
Travel for National Specialist Meetings	\$6,000	\$0	\$6,000	\$0
<b>Cost Center Contingency Fund:</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,000</b>
Contingency Fund	\$10,000	\$0	\$0	\$10,000
<b>TOTAL:</b>	<b>\$1,060,750</b>	<b>\$90,489</b>	<b>\$531,206</b>	<b>\$439,056</b>

## E. Information-Technology Issues

**Desktops:** The Iowa District has 50 Windows desktops. The following table provides information on the OS and location of the desktops. The remaining desktops that are still running Windows 2000 will be upgraded to Windows XP in 2004.

Office	Iowa City	Council Bluffs	Fort Dodge
Total Desktops	40	6	4
Windows XP Desktops	40	0	0
Windows 2000 Desktops	0	6	4
Pre Win 2000 Desktops	0	0	0

**Servers:** The Iowa District server inventory includes Windows 2000 servers (Active Directory installation), Windows NT (Domain installation) and Solaris 8 servers. The District is in the process of migrating the NT Domain installation to an Active Directory installation.

Name	Location	OS	Hardware	Function(s)
I1diaiwc	Iowa City	Windows 2000 Server	Dell Poweredge 2500 Dual	AD Domian Controller
I2diaiwc	Iowa City	Windows 2000 Server	Dell Poweredge 6300 Quad	AD Domian Controller
S1diaiwc	Iowa City	Windows NT Server	Dell Poweredge 6300 Quad	PDC Until AD setup
S4diaiwc	Iowa City	Windows NT Server	Dell Poweredge 4200 Dual	Temp BDC until AD setup
C1diaiwc	Council Bluffs	Windows NT Server	Dell Poweredge 2400 Dual	BDC, to be Win2000 AD Server
F1diaiwc	Fort Dodge	Windows NT Server	Dell Poweredge 2400 Dual	BDC, to be Win2000 AD Server
Srv1diaiwc	Iowa City	Solaris 8	Sun 450 quad, 1GB RAM	NWIS Server, File Server
Srv2diaiwc	Iowa City	Solaris 8	Sun 450 quad, 1GB RAM	File Server, SLEDS Server
Srv3diaiwc	Iowa City	Solaris 8	Sun 250 dual	File Server
Webdiaiwc	Iowa City	Solaris 8	Ultra 5	Web Server (Internet)
Sw1diaiwc	Iowa City	Solaris 8	Ultra 10	Samba Server
Sw2diaiwc	Iowa City	Solaris 8	Ultra 10	Web Server (Intranet)
Cb1diaiwc	Council Bluffs	Solaris 8	Ultra 250 dual	File Server
Fd1diaiwc	Fort Dodge	Solaris 8	Ultra 10	File Server

**Network:** The Iowa District has a mixed network of gigabit and 100mb devices. The network backbone is a gigabit switch. All future equipment purchases will be purchased with gigabit network capability where available. Hubs (100BT) are connected to segments of the gigabit switch. Network equipment with gigabit capability (2 Sun servers) are connected to their own segment of the gigabit switch.

**Backups:** Backups are performed every business night and kept for a minimum of 30 days. Every month, one set of backup tapes are stored locally for an extended backup and one set is stored off-site for an off-site extended backup. In addition, a tape with NWIS data is sent to our NWIS buddy site, Kansas for disaster recovery. All file systems are backed up nightly. Files are restored from the on-site and off-site monthly keeps to ensure validity of the tapes that are saved.

**Staff:** The Computer Services Section consists of 1.7 FTEs staffed by two full time employees. Thirty percent of one of the full-time employees is funded by NWIS (Sun Technical Advisory Committee).

**IT Issues:** The District is concerned about the potential impact of the FAIR act on the IT services for the District. There are many programs and systems used in the Iowa District that are not standard systems outside of the USGS. The cost to train new contractors on a regular basis would be an additional cost to the District.

**Future Plans:** The District has an IT Working Capital Fund that will be used to purchase a new Sun server for NWIS. In addition the District will use the Working Capital Fund to purchase new laptops for users who currently have laptops that cannot be upgraded to Windows 2000 or Windows XP.

## F. Safety Issues

### ***Significant Events:***

- JHA's for all surface-water sites were updated in December 2003. The JHA's were developed from a generic USGS form found on-line. The JHA's were updated to make them more site specific in relation to the streamgaging surroundings found at the site. Items include: exact location of wading section, streambed material, maximum wading stage, and any other specific hazards located at the site (i.e. steep banks, slippery rocks, insects, etc.). The updated JHA's are currently under review by supervisors and the CDSO.
- Through the use of JHA's, project chiefs are able to determine the amount of equipment, supplies, and chemicals needed for the project. Through the use of JHA's, the amount of excess chemicals has been significantly reduced, thus reducing the added expense of disposing of chemicals and supplies once the project is over.



### ***Inspections:***

- The District Management Team now requires that all vehicles be inspected by a certified auto mechanic on a yearly basis. All District vehicles were inspected in 2003. Any necessary repairs were completed at the time of inspection.
- Ron Kuzniar, Regional Safety Officer, visited the District in June 2002 and conducted inspections of offices, labs, vehicles, and streamgaging stations. Deficiencies were noted and all required and recommended actions were completed.
- The three cableways used by the Iowa District were inspected in 2003. All three passed inspection with no major deficiencies to the structures.

### ***Training:***

- Matt Noon, the Collateral Duty Safety Officer, attended the Department of Interior Safety Conference in March of 2003. Topics of discussion included: accident/injury reporting, health issues in the DOI, four-wheel safe driving, wilderness first aid, construction safety, watercraft safety, and serious accident investigations.
- The Iowa District held its annual safety week in October 2003. Training included First Aid/CPR and Defensive Driving. Thirty-four employees attended the First Aid/CPR course and thirty-two employees attended the Defensive Driving course.

### ***Other Elements:***

- District Immunization programs and Medical Surveillance programs are ongoing.
- The surface-water gage, Little Sioux River at Correctionville, had the stilling well removed and replaced with a pressure transducer.
- Two surface-water sites, Thompson River at Davis City and Iowa River near Lone Tree, had the stilling wells discontinued and replaced with pressure transducers. The stilling wells are still located at the site and need to be removed in 2004.
- There are currently four abandoned stilling-well sites in the Iowa District that need to be removed.
- The overall condition of the safety program is strong in the Iowa District. Management, supervisors, and employees all realize the perils of the job and take safety very seriously. Individuals realize they are responsible for their safety as well as the safety of others working with them.
- In the past two years, regional staff and OSHA have reviewed the Iowa District. In both cases the District did very well with only minor infractions noted.
- The District Safety Committee is currently not as effective as it could be. Travel and budget limitations have made it difficult for the committee to meet on a regular basis. More effort needs to be made via email and conference calls to make the committee more effective in aiding management with safety decisions.

## G. Training

The District has obligated \$6,000 for mandatory general staff training requirements. These funds are paid from the common services account. With the implementation of the new Distributed Direct Science cost accounting, all technical training is now paid from project accounts and becomes the responsibility of the project chief. Employees and supervisors are encouraged to discuss training and career development during their annual performance appraisal, however, a formal District training plan is no longer prepared. Project chiefs discuss project training needs with the District Management Team during quarterly project reviews. The new cost accounting system for training has the potential to create a “caste system” for training where projects that are well-funded have training opportunities and projects that have tight budgets do not. During FY2004 all technical training is being considered on a case-by-case basis due to the financial situation in the District.



**"Build and Grow Our Workforce to Guarantee Scientific Excellence"**

The District considers New Employee Orientation, Diversity in the Workplace, and Sexual Harassment in the Workplace, Computer Security, Hazard Communication, and Blood-Borne Pathogens as mandatory training for all employees and is being provided by videotape or presentations. Field personnel also receive required training in First Aid/CPR and Defensive Driving. Other specialized training such as Boat Operators, Hazardous Waste Site Safety, and Seismic Blasting Safety is provided to those employees involved in the activities.

The District would benefit by providing in-house group training for the following activities: refresher training in reports writing and reviewing. In-house training in these topics would be beneficial because of the number of staff needing this training and the limited availability of openings and scheduled dates at other venues.

## H. Outreach

The Iowa District's Communication Plan provides a strong outline for the District's public affairs and outreach activities. The District continues to maintain contact with Congressional representatives and works with the media to promote District activities within the State.

**May 13, 2003: Iowa Children's Water Festival** The Iowa District is one of the primary sponsors of this annual event which hosts 2000 fifth-graders from across the State. Students gather for a day of water education presented by professionals involved in water-resources activities. The District Chief, Communications Officer, and Ground-Water Specialist coordinate the program and educational content for this event by working closely throughout the year with other Federal, State, and local agencies, many of which are District cooperators. Additional USGS personnel attend the festival to promote water education at the District's booth in the Exhibit Hall and its classroom presentation of "Water Jeopardy". The festival was honored over the past year with three prestigious awards:

- *Governor's Environmental Award - Special Recognition in Water Quality* recognizes leadership and innovation in protecting Iowa's natural resources. USGS Steering Committee members attended the awards ceremony at the Governor Vilsack's Office.
- *Iowa Academy of Science Distinguished Service Award* is presented to an individual, group, or organization for exceptional service in the areas of science, technology, or the application of science to public service.
- *Iowa State Water Resources Research Institute Award* was presented to the ICWF to recognize the festival as an Outstanding Educator.



Plans are currently underway for the May 15, 2004 festival. This year applications from 2500 students have been accepted. This event provides high profile visibility for the USGS not only to the 2000+ students but also to the 400-500 volunteers, teachers, parents, presenters, exhibitors, and sponsors, all current or potential District cooperators that help to make this a first-class event.

**July 10, 2003: 10-Year Anniversary of the Great Midwestern Flood, Des Moines, Iowa** USGS scientists joined the Des Moines Water Works (DMWW) Director at a ceremony to unveil a high-water flood marker at the DMWW facilities in downtown Des Moines. The plaque was mounted in the lobby of the DMWW building that was inundated by the Raccoon River when it reached a record-high stage of nearly 27 feet on July 11, 1993 leaving more than a quarter million Des Moines area residents without water service for 19 days. The water rose more than three feet in the DMWW office building and completely submerged the pumps in their plant closer to the river. Staff representatives from Senator Harkin's, Senator Grassley's and Congressman Boswell's offices read letters recognizing the USGS role in providing life saving information to the State during this devastating natural disaster.



After the plaque ceremony inside the DMWW building, attendees visited a site in the DMWW Park along the Raccoon River where the USGS demonstrated the height of the floodwaters with a 20-foot pole that rose above the current surface of the river.

Crews from the three network television news teams and the statewide newspaper reported the story. The Iowa District extends our sincere gratitude to the Central Region Chief of Communications for his invaluable assistance in coordinating and promoting this very successful event.



**August 13, 2003: 10-Year Anniversary of the Great Midwestern Flood, Coralville, Iowa** The Iowa District hosted a daylong conference to commemorate the 1993 floods in Eastern Iowa where the elevation of Coralville Lake reached five feet above the top of the spillway at the Coralville Dam. Coralville Lake continued to flow over the spillway at the dam for nearly 30 days during July and August. The uncontrolled release of floodwater eroded a 15-foot channel into the underlying bedrock deposits, revealing an area now preserved at the "Devonian Fossil Gorge."

Speakers from the USGS, US Army Corps of Engineers, Iowa City Water Division and the National Weather Service relived their stories about the flood and reviewed what has changed since 1993 - new technology, new procedures, and other changes in flood-warning systems and mitigation that have been developed in the past 10 years - as well as the challenges that still lie ahead. Staff representatives from Senator Harkin's and Congressman Leach's offices attended the conference and read letters recounting the activities and heroic efforts of those involved in keeping the Iowa City water plant on-line.

The afternoon session was held at the Devonian Fossil Gorge (DFG) where USGS scientists and University of Iowa professors led the attendees thru the 375-million-year-old Devonian Sea floor where abundant crinoids and brachiopod fossils can be found. The District's Ground-Water Specialist was a founding member of the DFG Committee that was able to raise over \$500,000 in private, corporate, and governmental funds to create the site's interpretive center. More than 1 million people have visited the gorge since it was opened to the public after the floodwaters receded.



**December 13, 2003: Century Gage Dedication – Iowa River at Iowa City, Iowa** The Iowa River at Iowa City, Iowa streamgage located adjacent to the University of Iowa - College of Engineering's C. Maxwell Stanley Hydraulics Laboratory (SHL) has been measuring and recording water levels since 1903. The Iowa District held a Century Gage dedication ceremony and reception to commemorate this 100-year anniversary.

Representatives from Senator Grassley's, Congressman Leach's, and the Corps of Engineers' offices, along with the SHL Director, the newly appointed State Geologist, and the University of Iowa's Associate VP for Governmental Affairs, an Iowa City Councilor, and the Iowa City Water Division Director addressed those in attendance. Four USGS retirees recounted their years maintaining the streamgages across the state. Current USGS employees described the accomplishments of the Iowa District's Data Section. Reporters from the local newspaper and a television station covered the event.



A 100-year hydrograph was displayed along with listings of significant historical events of the past century. Photographs of the construction of the SHL in 1927, Iowa River flooding in 1916, 1924 and 1993, and early Iowa City also were posted. A commemorative plaque was unveiled and later mounted on the gage house door.

**March 3, 2004: USGS 125th Anniversary and Century Gage Dedication – Mississippi River at Clinton, Iowa** To commemorate the 125<sup>th</sup> Anniversary of the USGS and to recognize the 130-year anniversary of the Mississippi River at Clinton, Iowa streamgage, the Iowa District has invited Congressional representatives, city leaders from Clinton, Bettendorf, Davenport, and Muscatine, the U.S. Army Corps of Engineers, the National Weather Service, the Iowa Department of Natural Resources, and faculty and staff from the University of Iowa to join them at the Lucille A. Carver Mississippi Riverside Environmental Research Station for a birthday party, employee recognition, and century-gage dedication.

The history of the USGS and the importance of its cooperators' role in providing water-resource information to the nation will be discussed. A Century Gage plaque will be unveiled and will later be mounted on the door of the Clinton gage house. A 130-year hydrograph will be displayed along with historical photographs of USGS employees and equipment.

A News Release will be distributed to the media in the Iowa City, Cedar Rapids, and Quad Cities metropolitan area.

## I. Information required by External Review of the Cooperative Program

### ***Projects that Cross State Boundaries***

There are no Cooperative Program projects in FY2004, or planned for FY2005, that include a study that crosses a State boundary.

### ***Projects that involve USGS/private sector interaction or collaboration***

There are no Federal-State Cooperative Program projects in FY2004, or planned for FY2005, that involve USGS/private sector interaction or collaboration. However, project products and information are often utilized by the private sector in working directly or indirectly with the cooperators during and after the project completion.